Facilities Management Standards Questions

- Should the Tri Service Standards be moving toward an enterprise wide solution?

- Where are we now?

- Where do we want to be?

Definition of "Enterprise Data"

- ## Transactional Data Examples

  - Real Property Inventory data

  - Environmental Planning and Compliance

  - Hazardous materials management

  - Land Management

- ## Non-Transactional Data Examples

  - Photographic

  - COTS specific Application data

  - Material safety data

Common/Core data
- Used by many
- Contributes to whole
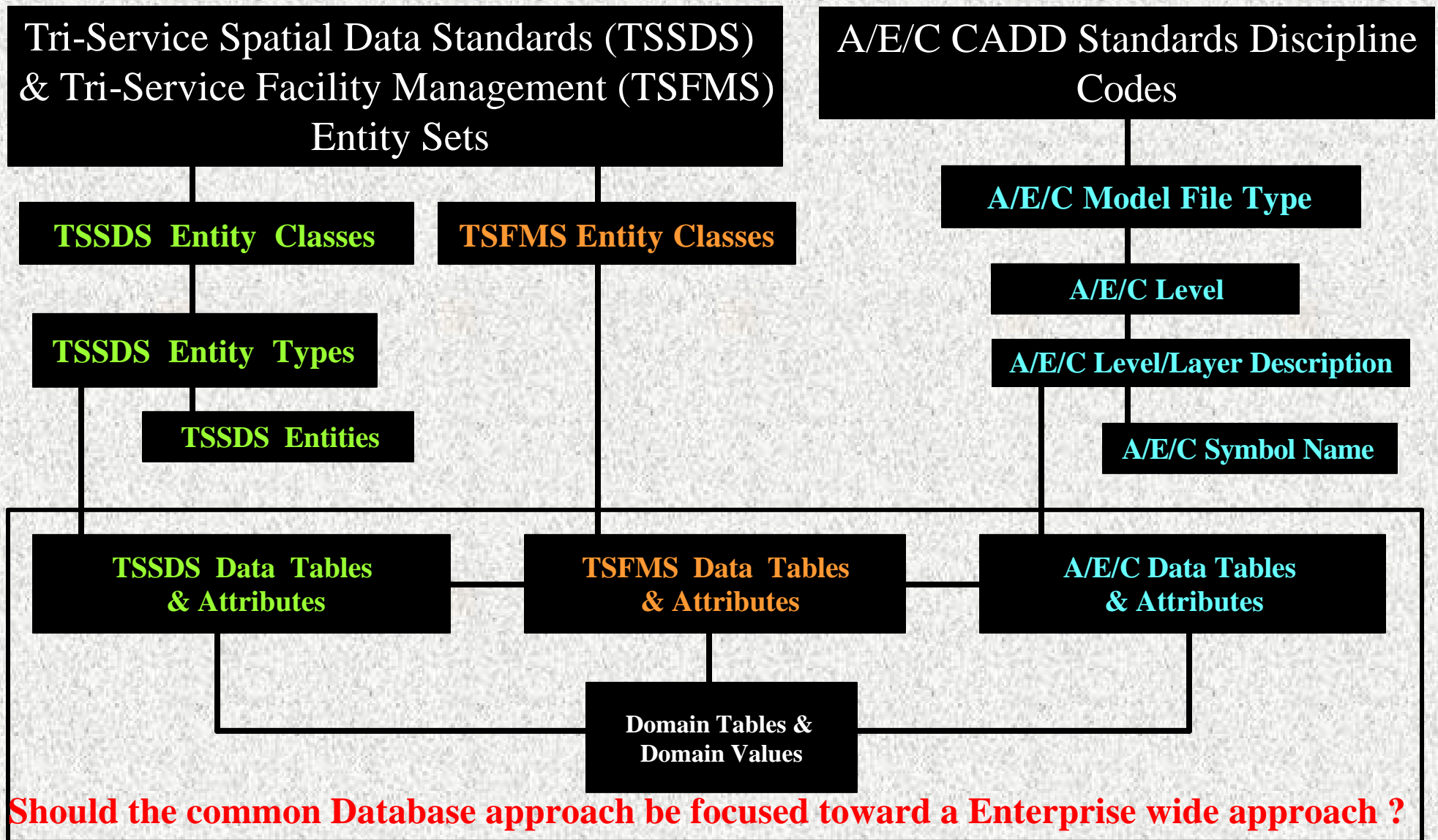- 3NF

Proprietary

Unique

Single use
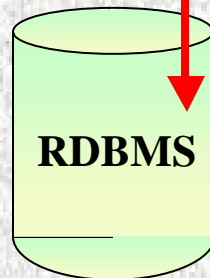
Legacy

Temporary

External Source

Current Tri-Service Standards Model Approach

Tri-Service Spatial Data Standards (TSSDS) & Tri-Service Facility Management (TSFMS) Entity Sets

A/E/C CADD Standards Discipline Codes

TSSDS Entity Classes

TSFMS Entity Classes

A/E/C Model File Type

TSSDS Entity Types

A/E/C Level

A/E/C Level/Layer Description

TSSDS Entities

A/E/C Symbol Name

TSSDS Data Tables & Attributes

TSFMS Data Tables & Attributes

A/E/C Data Tables & Attributes

Domain Tables & Domain Values

Should the common Database approach be focused toward a Enterprise wide approach ?

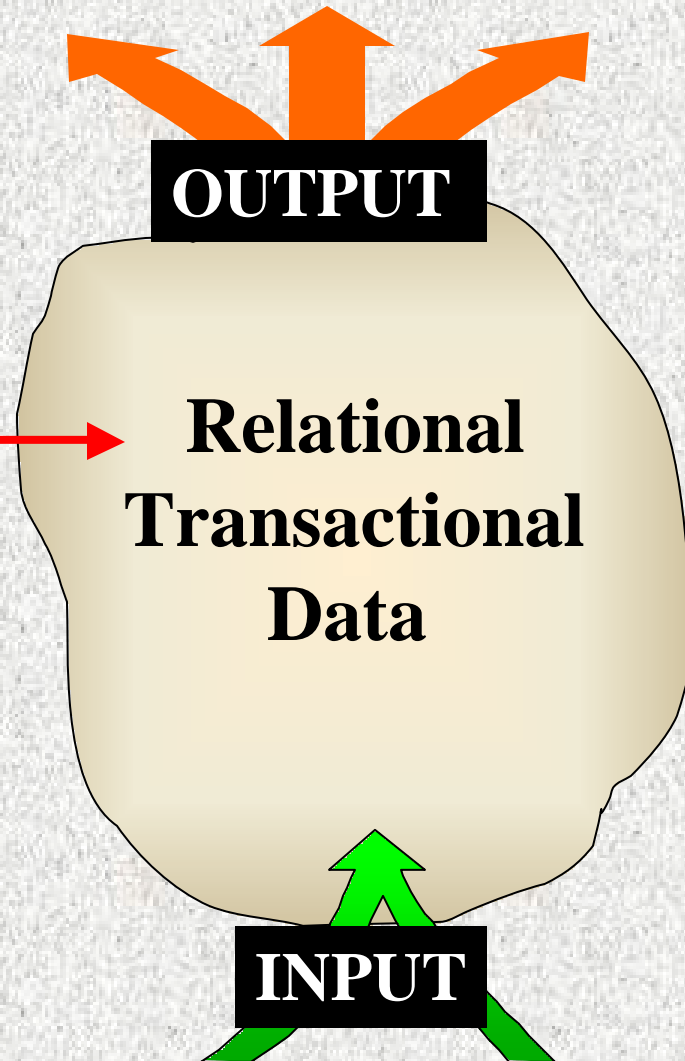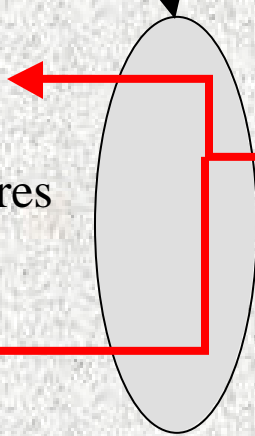# Do we remain Outside V.S. Inside of Enterprise Wide Solutions

Joins and Processes

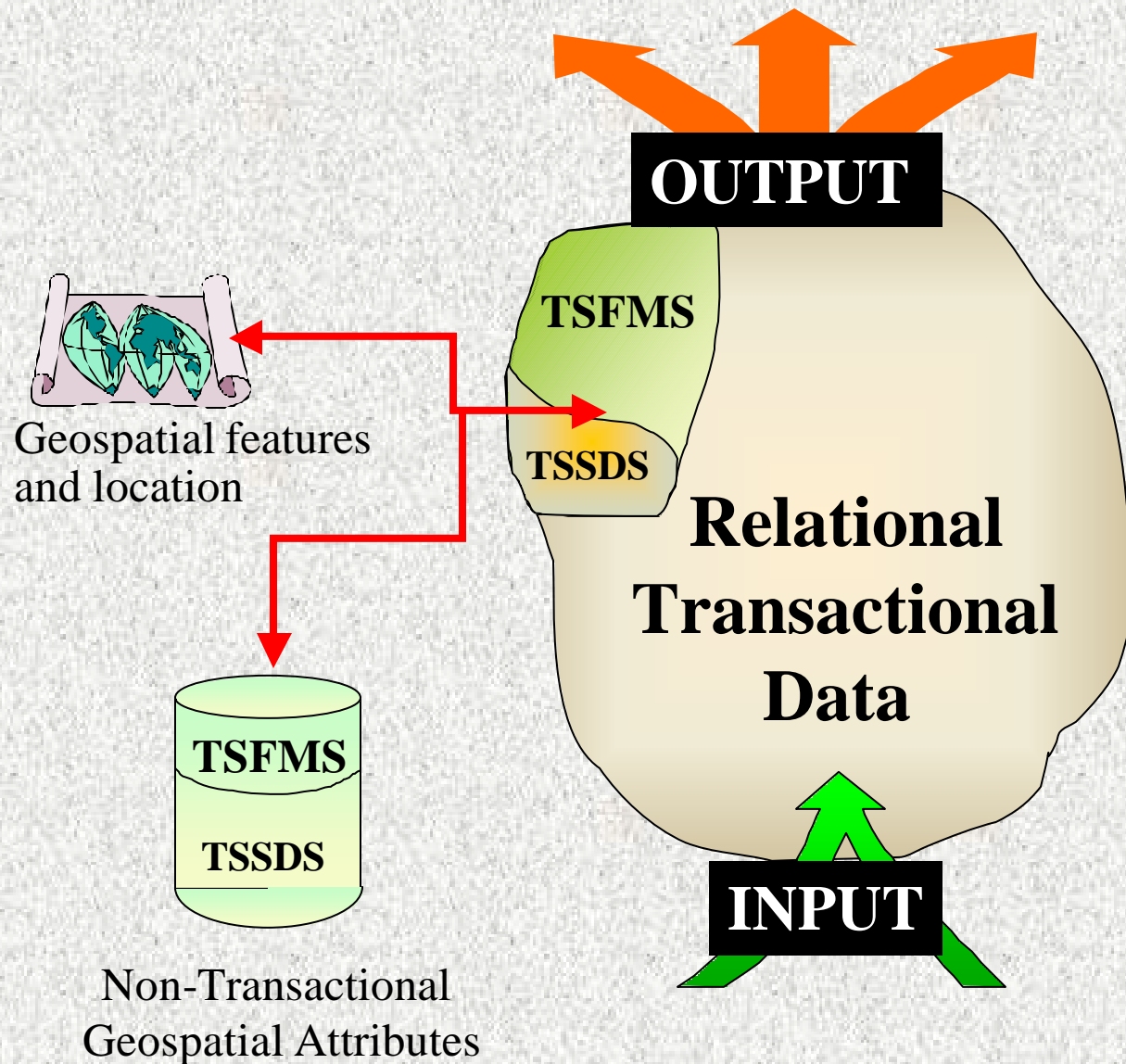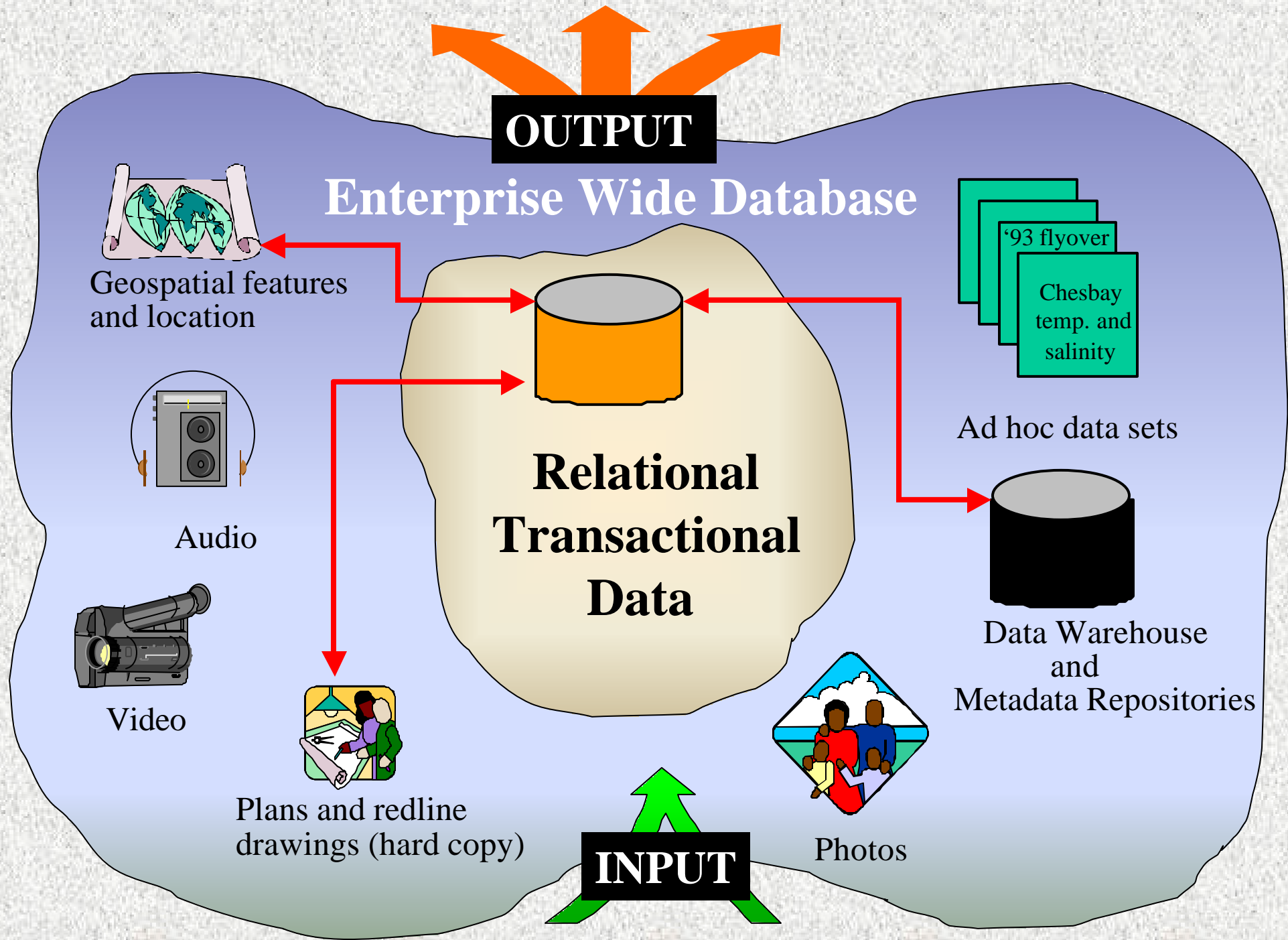Geospatial features and location

RDBMS

Geospatial Attributes

OUTPUT

Relational Transactional Data

INPUT

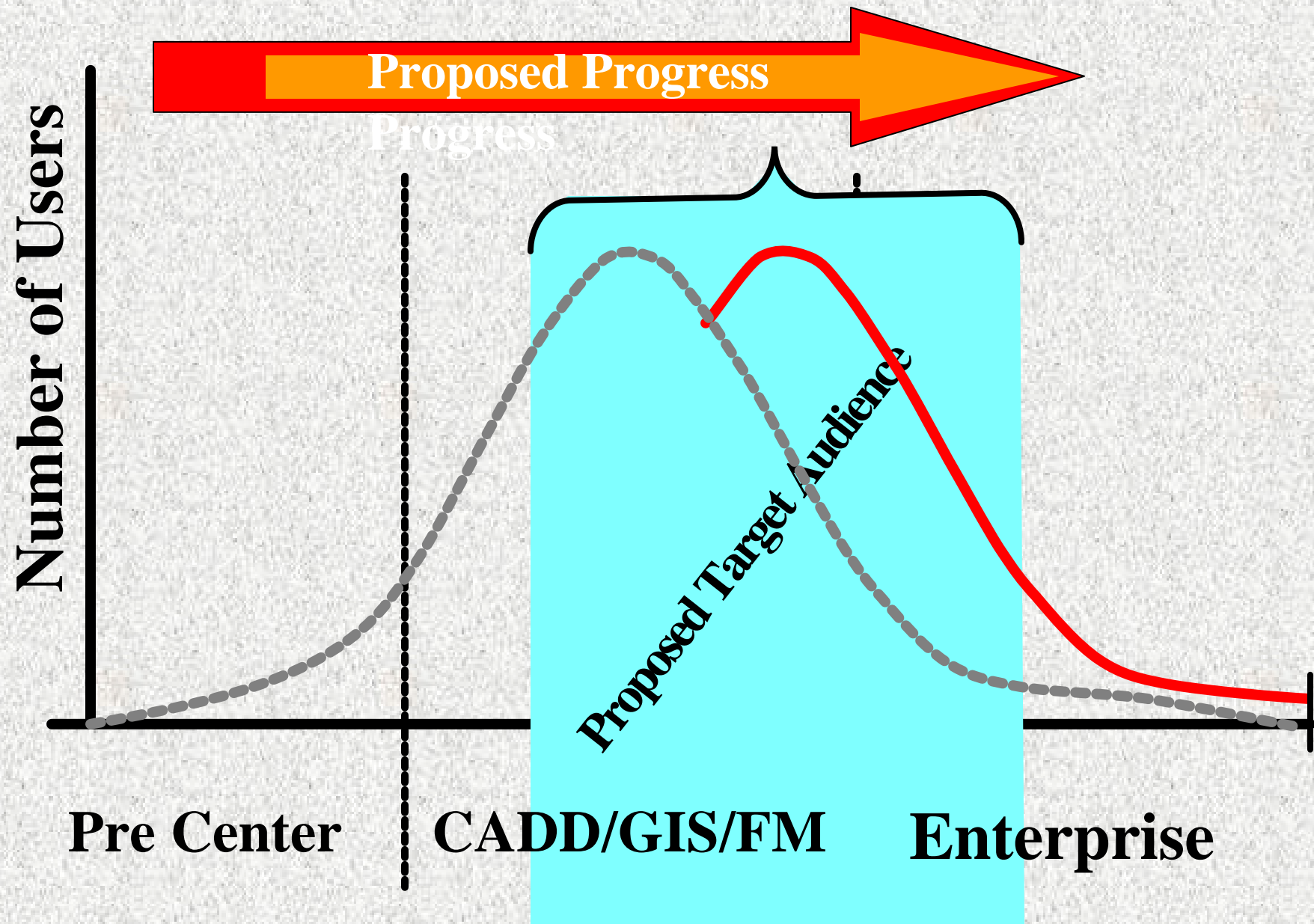# How should the Tri-Service Standards fit into a Enterprise Wide Model?

OUTPUT

TSFMS

TSSDS

Relational Transactional Data

INPUT

Geospatial features and location

TSFMS

TSSDS

Non-Transactional Geospatial Attributes

Where does GIS and CADD fit in an Enterprise Environment?

OUTPUT

Enterprise Wide Database

Geospatial features and location

Audio

Video

Plans and redline drawings (hard copy)

Relational Transactional Data

'93 flyover

Chesbay temp. and salinity

Ad hoc data sets

Data Warehouse and Metadata Repositories

Photos

INPUT

The Standards Migration Strategy

FTAG/EWG Definition
Joint May Meeting 1999

- *The scope of Facility Management Standard is the data describing the control and reporting of real property and derived entities that must be considered in its use. As defined by the Core Focus Areas and Associated areas.*

Strategic Development Plan

- Asset Management
- Civil Works Programs
- Land Management & Conservation Services

Core Focus Areas

- Operations Area Support
- Public Safety
- Communications Support

Associated Areas

Facilities Management Standards Overview

Assets Management

Utilities

Real Property Planning

Real Property Maintenance

Training

Land Areas

Environmental

Agricultural

Conservation

Civil Works

Waterways

Flood Control

Land Management

Public Safety

Force Protection

Fire & Safety

Communications

Telephones

Radio

Cable

Operations Areas

Port Facilities

Industrial Engineering

Air Operations

Proposed Approach

Core Focus Areas

Assoc. Areas

Operations Support	Civil Works Program	Land Management & Conservation Services	Asset Management	Public Safety	Communications
Port Facilities	**Water Ways**	**Land**	**Utilities**	**Force Protection**	**Telephones**
Berthing Logistics	Harbor	Training Areas	Water	Disaster- Preparedness	
Hotel Services	Locks	Natural Resources	Sewage		
Tugs & Crafts Degaussing	Dams	Historical	Electric	Guard/Security/ Traffic	
Spill Response Sea Air Rescue	Revetments	Archaeological	Fuel Storage	Law enforcement/ Crime prevention	**Radio**
Spill Response Weapons Support	Dredging	Recreational	Distribution Sys.		
	Recreational	**Environmental Compliance**	**Real Property Planning**	**Fire and Safety**	
Industrial Engineering	**Flood Control**	Pollution Prevention	Planning	E 911 Response	
Equipment Repair Maintenance	Levees	Assessment & Monitoring	Space Mgt.	Fire Protection/ HAZMAT	
Utilities	Floodwalls	HAZMAT Control	Public Wroks Mgt.	Centrally Mgt Safety Prog/	**Cable**
	Reservoir		Facility Enginering	Crash & Rescue	
Air Operations	**Land Management**	**Agricultural & Conservation**	Range Mgt.		
Navigational Aids	Reclamation	Soil Conservation	Forestry		
Fuel Support Terminal Ops.	Irrigation	Farmland Mgt.	Lease Mgt.		
Ground Electronics Crash & Rescue		Crop Management WaterShed	**Real Property Maintenance**		
Weapons Handling Cargo Handling Air Traffic Control		Flood Prevention Water Quality Fish & Wildlife	Facility Repairs Roads Equipment Landfills Waste Mgt. Grounds		
			Training		

Recommend we provide a strategy to achieve integration across the four major platforms

Recommendations to ESG

- Focus on the Inventory Data needed
- First do the Legal Reporting requirements while the key focus is on operational needs
- Proceed then to Policy criteria
- Do not attempt to build a process driven Model (leave this to the COTS Vendors)
- Provide the data model and standards needed to interface with COTS products

Asset Management

- Utilities, including water treatment, sewage treatment, electrical power generation, utility lines, and fuel storage and distribution systems.

- Real Property, including real property planning, space management, public works management, facility plans and engineering, range management, forestry management and lease management.

Asset Management (Continued)

- Real Property Maintenance, including facility repair and maintenance, road maintenance, equipment maintenance, landfill and waste management, grounds maintenance.

- Training Areas.

Operations Area Support

- Inventory information related to Air Facility Operations, including fuel support, T-line/airfield facilities, ground electronics, crash and rescue, weapons housing, cargo handling, passenger terminal operations, airfield logistics, auxiliary airfield support, radar, communication, ground-based navigational aids, automation, and radios used to facilitate communication between air traffic controllers and pilots.

Operations Area Support (Continued)

- Port Facilities, including berthing and hotel services, port logistics, tugs and crafts, degaussing, sea air rescue, spill response, and weapons support.

- Industrial Engineering Support, including equipment and repair, maintenance, utilities.

Land Management and Conservation Services

- Land, including integrated training area management, natural resource management, historical and archaeological management, and recreational area management.

- Environmental Compliance, including pollution prevention, compliance assessment and monitoring, HAZMAT control and other compliance related activities.

Land Management and Conservation Services

- Agricultural and Conservation, including soil conservation, farmland rehabilitation, crop management, watershed and flood prevention operations, water quality management, water conservation, fish and wildlife management and other conservation oriented programs.

Civil Works Programs

- Waterway (Harbor and River) Programs, including locks, dams revetments, harbor and river dredging, and recreational facilities.

- Flood Control Programs, including levees, floodwalls and reservoir construction.

- Land Reclamation and Irrigation Programs.

Public Safety

- Public Safety, including HAZMAT, crash and rescue, weather, emergency response routes, disaster preparedness, fire protection.

Information and Communications Support

- Communications, including communications infrastructure, cable management, telephone and radio.

Return on Investment Focus